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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/849,555	05/04/2001		John Christopher Deak	8325	1137	
27752	7590	09/22/2004		EXAMINER		
		GAMBLE COMP	KUMAR, PREETI			
		ROPERTY DIVISIO CHNICAL CENTER		ART UNIT	PAPER NUMBER	
6110 CEN	TER HILL	AVENUE	1751			
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DATE MAILED: 09/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)					
	09/849,555	DEAK ET AL.					
Office Action Summary	Examiner	Art Unit					
	Preeti Kumar	1751					
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet with t	he correspondence ad	ldress				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply ly within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS e, cause the application to become ABANI	be timely filed) days will be considered timel from the mailing date of this coonsidered ONED (35 U.S.C. § 133).	y. ommunication.				
Status							
1)⊠ Responsive to communication(s) filed on 16 J	une 2004.						
	s action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-43 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-43 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	wn from consideration.						
Application Papers							
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by to drawing(s) be held in abeyance. tion is required if the drawing(s) is	See 37 CFR 1.85(a). s objected to. See 37 CF	, ,				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Appli rity documents have been rec u (PCT Rule 17.2(a)).	cation No eived in this National	Stage				
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summ Paper No(s)/Ma 5) Notice of Inform 6) Other:		-152)				

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DETAILED ACTION

Final Rejection

Response to Amendment

- 1. Claims 1-43 are pending. Claims 1, 34, 41, and 42 are independent.
- 2. Claims 1, 11, 13-15, 33-34, 41-42 are amended.
- 3. The objection to claims 11, 15, 34 is withdrawn in light of applicant's amendment to the claims.
- 4. The rejection of claim 1 under 35 U.S.C. 112, second paragraph, is withdrawn in light of applicant's amendment to the claim.
- 5. The rejection of claims 1-43 under 35 U.S.C. 103(a) as obvious over Madore et al. (US 5,057,240) is withdrawn in light of applicant's amendment to the claims requiring the aqueous vapor to be applied to the fabric instead of "exposed". Examiner finds support for the amendment in the specification page 15, lines 1-10.

Response to Arguments

6. Applicant's arguments filed June 16, 2004 have been fully considered but are moot in view of the new grounds of rejection below.

Also, Applicant's urge that the claims have been amended to recite the term "applying" to replace the term "exposing" with respect to the aqueous vapor and lipophilic fluid. However, independent claims 34 and 41 recite exposing the fabric article to a lipophilic fluid.

Finally, Applicant's urge that the Examiner's comments regarding pulsing are unsupported. However, the examiner referred to applicant's specification page 13, In.3-

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11, defining pulsing as a non-continuous application of the aqueous vapor to the fabric while the fabric maybe tumbled or spun. See Applicant's specification.

New Grounds of Rejection

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 8. Claims 1-3,10-24, 29-43 are rejected under 35 U.S.C. 102(a) as being anticipated by Berndt et al. (US 6,063,135).

Berndt et al. teach a dry cleaning system and method, in which dry cleaning machinery is used in conjunction with a specific solvent which is derived from an organic/inorganic hybrid (organo silicone). Such solvent is used in combination with an organic and/or organo-silicone-based detergent which is specifically tailored for working in conjunction with the solvent to afford optimal cleaning. In a preferred embodiment, the method comprises the steps of loading articles into a cleaning basket; agitating the articles in the solvent and detergent composition in which they are immersed; removing most of the solvent and detergent composition; centrifuging the articles; heating the articles and remaining composition and creating vapors, condensing vapors and optionally reducing the pressure to dry the articles, recovering and recycling solvent and removing the articles from the basket after cooling the articles. See abstract and col.8-9 in their entirety.

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Berndt et al. teach that the garments or other items to be dry cleaned are placed in a vertical combination washer dryer with a horizontally rotating agitating cleaning basket. The barrel of the basket will have numerous holes or perforations, to take advantage of the low surface tension of this cyclic siloxane to allow the immediate removal of the same during centrifugation. Specifically regarding the step of applying the lipophilic fluid, Berndt et al. teach that during the cleaning cycle, the solvent and the detergent mixture (if used) is pumped out of the basket through a "button trap" and then across a filter to remove the particulate and impurities form the mixture. At times a choice of a "batch" solvent flow may be used wherein the mixture may not be exposed to the filter system, but be pumped from the button trap directly back to the basket. See col.8, In.25-35.

Regarding the step of applying an aqueous vapor, Berndt et al. teach that the garments are tumbled in the basket in the vapor-laden air heated to a temperature between 110 and 170 degrees Fahrenheit. See col.8, In.55-56. Specifically the aqueous vapor is applied to the fabrics since Berndt et al. teach the use of pressurized steam to heat the air inside the basket through the use of a circulating fan. See col.8, In.60.

Berndt et al. teach that the dry cleaning employs a fluid class of cyclic siloxanes more particularly known as octamethyl-cyclotetrasiloxane (tetramer), decamethyl-cyclopentasiloxane (pentamer) and dodecamethyl-cyclohexasiloxane (heximer). See col.4, ln.1-6.

Berndt et al. teach solvents may be modified and enhanced in the form of adding soil suspending additives to prevent re-deposition of dirt during the wash and rinse cycle, detergents for water-base stains, brighteners, and disinfectants for the disinfection of bacteria and other forms of microorganisms which are present in all clothing. Further, ionic surfactants may be employed in conjunction with the solvent. It should be noted that the additive may be included as a component of the solvent solution or as a separate agent. See col.6, In.35-60.

Accordingly the teachings of Berndt et al. anticipate the material limitations to the instant claims.

9. Claims 4-9, and 25-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Berndt et al. (US 6,063,135) in view of Eisen (US 5,940,988).

Berndt et al. are relied upon as set forth above.

However, Berndt et al. do not teach the duration of the pulse of the aqueous vapor or the droplet size that is applied to the fabric as recited by the instant claims. Furthermore, Berndt et al. do not teach the utility of cold steam as recited by the instant claim.

Eisen teaches a method of dry cleaning garments includes the steps of: placing clothes in a rotatable drum of a dry cleaner, supplying a chemical in liquid or gas form to the drum to remove odors from the clothes in the pressurized drum, pressurizing the air in the drum to clean the clothes therein, supplying water or water vapor to the clothes in the pressurized drum, supplying a chemical fabric conditioner to condition the clothes in

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the pressurized drum, and evacuating air and filtering out fine particulate matter from the pressurized drum. See abstract.

Eisen teaches a dry cleaning apparatus including a housing having a door and an internal rotatable drum for receiving clothes to be cleaned, a motor and pulley system for rotating the drum, and a heating element having an air circulation blower for heating the clothes in the drum. The dry cleaning apparatus further includes a first hose connected to the housing for supplying pressurized air to the drum, a second hose connected to the housing for supplying water or water vapor to the clothes in the drum, and a third hose and vacuum pump connected to the housing for evacuating air and/or fine particulate matter from the drum. See col.8, In.40-65.

Specifically regarding the pulsing, Eisen teaches that the dry cleaning apparatus allows the operator to select the parameters for each liquid vessel, gas cylinder and, air compressor and vacuum pump. Eisen teaches that the dry cleaning apparatus comprises a plurality of sensor output components for pressure, flow rate, temperature and time of processing, for each cleaning or conditioning treatment step used in the cleaning procedure. As shown in FIG. 1, the visual display screen 191 on control panel 190 will show, for example, in using vessel 132 having water 20 therein, what the operating conditions and parameters of pressure rate, flow rate, temperature of water and length of time sequence for the water conditioning step 320 for controlling how much water vapor 20v is supplied to basket chamber 90 of rotatable drum 82. Water vapor 20v is added to the garment 12 for increasing the moisture content of the fabric of garment 12 being cleaned to make pressing easier. Visual display screen 191 will

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display each of the operating conditions and parameters of processing steps 250, 260, 270, 280, 300, 310, 320, 330 and 340. The operator now presses the start button 193c to start the pre-determined programmable dry cleaning sequence of method 200. See col.9, ln.35-55.

Thus, it would have been obvious to one of ordinary skill in the art to modify the teaching of Berndt et al. and pulse the aqueous vapor having the droplet size as recited by the instant claims, since the prior art teaching of Eisen suggests adding water vapor to the garments for increasing the moisture content of the fabric while controlling how much water vapor is supplied to the fabric garments in the drum and Berndt et al. suggest applying aqueous vapor to fabric through a circulating fan in general.

10. Claims 33-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Madore et al. (US 5,057,240) in view of Eisen (US 5,940,988).

Madore et al. teach a liquid detergent having fabric softening properties and including an improved fabric softening agent. The fabric softening agent is a silicone fabric softening agent selected from a polyorganosiloxane; a polydiorganosiloxane gum; or a mixture of the said gum with either a low viscosity polydiorganosiloxane or with a volatile cyclic silicone such as octamethylcyclotetrasiloxane or decamethylcyclopentasiloxane. Certain emulsions of a highly branched and cross-linked silicone polymer may also be employed. See abstract and col.5, ln.35-46. Specifically regarding the amount of silicone polymer, Madore et al. teach that the volatile cyclic silicone constitutes about 90% by weight based on the total weight of the silicone mixture. The volatile cyclic silicone must be sufficiently volatile to evaporate at room

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temperature, and exemplary materials are octamethylcyclotetrasiloxane, decamethylcyclopentasiloxane, or mixtures thereof. See col.2, In.60-65.

Regarding adjunct agents, Madore et al. teach the liquid detergent of the present invention may contain many of the commonly included ingredients such as surfactants, builders, enzymes and enzyme stabilizers, pH modifiers, bleach activators and bleaches, antifoams, anti-redeposition agents, chelants, soil release polymers, dye transfer protectants, zeolite dispersants, water softeners, perfumes, anti-oxidants, and fluorescent brighteners, the essential ingredients for purposes of the present invention are an anionic surfactant, a nonionic surfactant, a carrier fluid, and the softening agent. See col.3, In.22-32 and col.6, In.5-15.

In example I Madore et al. illustrate silicones emulsified in a detergent matrix comprising surfactant and other adjuct components. See col.5,In.65-col.6, In15. In example II Madore et al. illustrate removing textile conditioners from cotton polyester terry towels in order to strip fibers of conditioners applied at the mill during manufacture of the towels. See col.6, In.50-67. In the context of the disclosure, the removal of the conditioners applied at the mill is to have a blank slate to illustrate the fabric softening properties of the invention.

In examples III and IV, Madore et al. illustrate a liquid detergent composition having fabric softening properties comprising a quarternary ammonium softener, octamethylcyclopentasiloxane solvent and water for use in a standard washing machine. See col.7-8. Madore et al. teach the use of similar materials (i.e.

decamethylcyclopentasiloxane) and at the similar temperature in the analogous process of cleaning fabrics.

Also, in example III Madore et al. illustrate that the fabric bundle was loaded into a washing machine and about fifty grams of liquid detergent containing a softening agent was added to the washing machine. The washing machine controls were established to provide a warm water wash (35.degree. C.) and a cold water rinse. The duration of the wash cycle of the particular washing machine employed was about fourteen minutes. At the end of the cycle of the washing machine, the bundle was dried in a dryer for about one hour. Each bundle was exposed to two complete cycles including washing and drying. See col.7, In.25-40.

However, Madore et al. do not specifically teach applying an aqueous vapor to the fabric as recited by the instant claims.

Eisen is relied upon as set forth above.

Thus, it would have been obvious to one of ordinary skill in the art to modify the teaching of Madore et al. by applying an aqueous vapor to the fabric as recited by the instant claims, since the prior art teaching of Eisen suggests the benefit of adding water vapor to the garments for increasing the moisture content of the fabric while controlling how much water vapor is supplied to the fabric garments in the drum and furthermore, Madore et al. teach an analogous method of cleaning and softening fabric with an analogous lipophilic fluid and aqueous vapor in general.

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Conclusion

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Preeti Kumar whose telephone number is 571-272-1320. The examiner can normally be reached on M-F 9:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra N. Gupta can be reached on 571-272-1316. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Preeti Kumar Examiner Art Unit 1751

PK

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